



**Relinea is a trusted,
pioneering expert with 18
years' experience
designing and delivering
alternative composite
solutions to the
construction industry.**

**We are at the forefront of
a revolution in materials
through GRP innovation &
design ensuring a
sustainable future for all.**

Reliable. Resourceful.



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Reliable in the services and products we supply.
Resourceful in building better GRP solutions
that will last well into the future.

Introduction

We innovate, design and fabricate advanced technical GRP structural components to overcome weight, corrosion and slip issues. With a revolutionary approach that uses intelligent GRP design and innovative composite manufacturing to challenge the conventions of construction, we work with our clients to find unique, long-lasting, sustainable solutions.



WHAT WE DO IS DIFFERENT

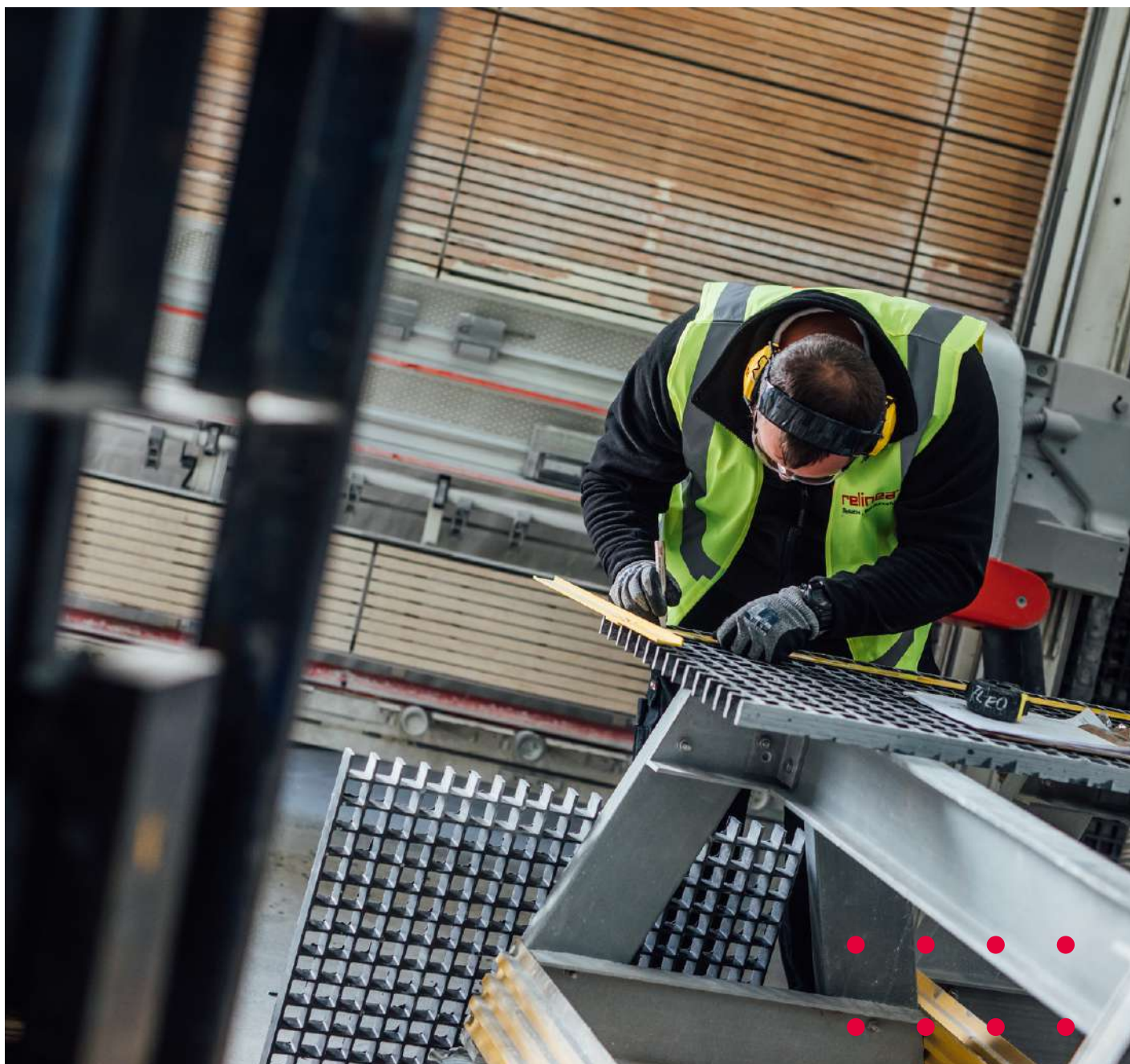
Our GRP designers, technicians, and installation teams deliver entire projects from start to finish. Our team has a deep understanding of our customers' operational and process challenges, and the expertise and specialist knowledge to design bespoke GRP solutions. Harnessing our strengths, we develop new products and services that fulfil our customer's needs and help build a better, stronger, more sustainable world.

Company Overview



The exceptional quality of our workforce provides a valuable competitive edge. We strive to employ and retain the most qualified people available and to maximise their opportunities for success through training and development. Our specialists have over 18 years of experience focusing only on fibre composites and are accredited to BS9001, RISQS, CHAS and Constructionline Gold standards.





relinea[®]
Reliable, Resourceful.

Wherever you go in our company, you'll find an uncompromising
commitment to performance, innovation, customer satisfaction,
and social responsibility.

Our Mission

Our mission is to work together as a team to lead the future of composites by putting innovation and our customers at the heart of everything we do.

Our Vision:

Through a focus on organic growth, driven by operational excellence and innovative products, we are committed to developing a distinctive value-creation culture that has a long-term positive impact for all our stakeholders. This culture and associated practices are embedded in our company with sound decision-making, regular investment, and world-class capabilities.



Innovation with purpose.

Our innovative approach to GRP design and fabrication reduces cost and makes installation easier.



Collaborative solutions.

We work with clients to find unique, long-lasting composite solutions.



Use our GRP experience to solve your problems.

18 years GRP experience delivers lighter, lower maintenance alternatives to steel.



Our Services

Our GRP designers, technicians, and installation teams deliver entire projects from start to finish. Our team has a deep understanding of our customers' operational and process challenges, and the expertise and specialist knowledge to design, fabricate and install bespoke GRP solutions.



CONSULTATION

We navigate our clients through their specific GRP technical issues to find composite cost reduction solutions that are flexible, long, lasting and easier to install. Our focus is engineering, not sales, which speaks volumes about our corporate philosophy



DESIGN

With one of the largest dedicated composite design teams in the sector combined with 18 years' experience in the manufacture of GRP products we are best placed to provide truly innovative, sustainable solutions.



FABRICATION

Our highly skilled composite fabrication teams use the latest technology and manufacturing techniques to deliver peerless results reducing on-site adjustment time of GRP mouldings and fabricated structures.



INSTALLATION

Our expert GRP installation team brings years of professional experience to every job, ensuring that your completed project meets our high-quality standards.



“ Every GRP project is bespoke, benefiting from our innovative fibreglass design knowledge and high quality standards.



GRP Solid Top Grating

Water and Wastewater Solutions

Combining our expertise in GRP Specialist Mouldings and Structural Products we can offer a vast range of GRP Products for the Water and Sewage Treatment Industries that outperform traditional materials and deliver highly durable solutions at a much lower cost.

Our expert team has a deep understanding of the challenges involved in these industries. Water companies, for example, are reacting to a future of increased competition brought about by market reform for non-domestic and domestic customers, with a focus on total expenditure (TOTEX) on assets and preparations for PR124 requirements. PR24, which will cover the period 2025-2030, will drive water companies to step up to deliver in the face of urgent challenges on the environment and climate change. The review will push companies to find new and innovative ways of delivering affordable, reliable, and resilient services for all.



GRP Stairs

Our team has unparalleled expertise in the planning, design, and installation of GRP systems for water supply infrastructure, treatment facilities, pumping stations, and water storage facilities. We bring industry-leading knowledge, as well as project management experience to complicated projects, and have worked with companies such as Glan Agua, Irish Water, Ovivo Water, various sewage treatment works and local councils.





GRP Access Platforms

Our Pre-engineered Modular Glass Reinforced Plastic (GRP) Access Platforms, are manufactured using Re-Struct GRP Profiles. These versatile structures can solve seemingly impossible access problems.

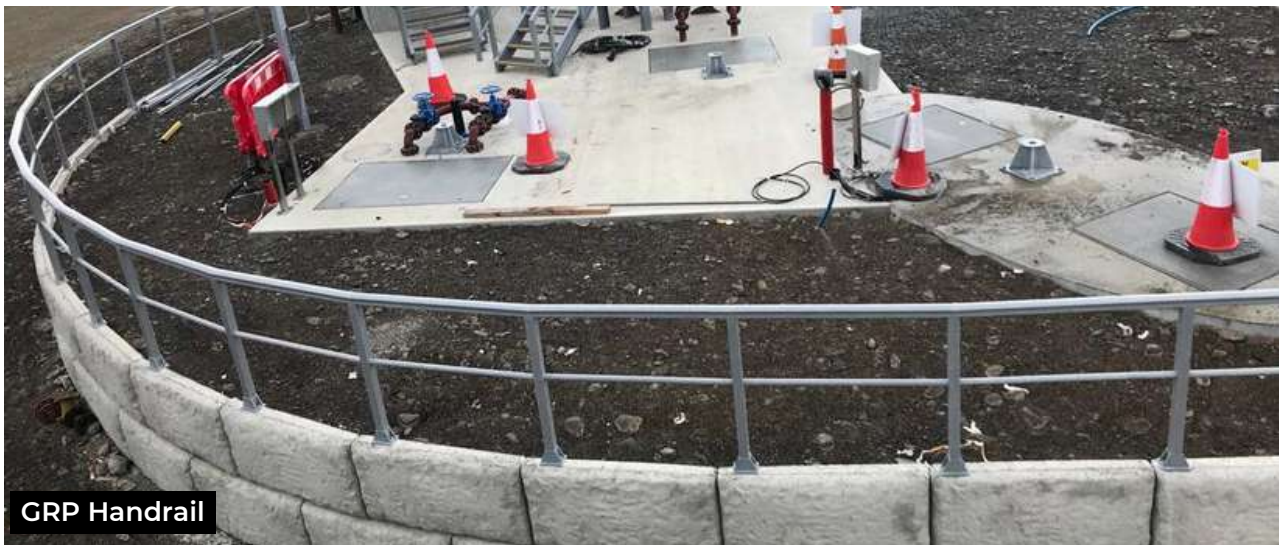
Relinea Bespoke Structural Platforms allow for safe access and clear delineation of acceptable walking routes over pipework, cable trays, ducting, industrial machinery, gutters, and walls. Designed to make navigating surroundings less hazardous and more time-efficient, access platforms are essential for health and safety.

Durable and maintenance-free, our platforms can be manufactured with grating stairs, landings, safety handrails, and kick plates. All of our platforms, bridges, and walkways are fabricated to our customer's needs and can be custom-built to fit seamlessly in and around existing structures.

The lightweight GRP makes for easy transport, handling, and reduced load on existing structures. Quick and easy to install, our platforms are a fantastic option for use near electrical installations as they are non-conductive.







GRP Handrails

Relinea GRP handrails are an extremely durable and cost-effective alternative to steel, and they are ideal for industrial and commercial applications.

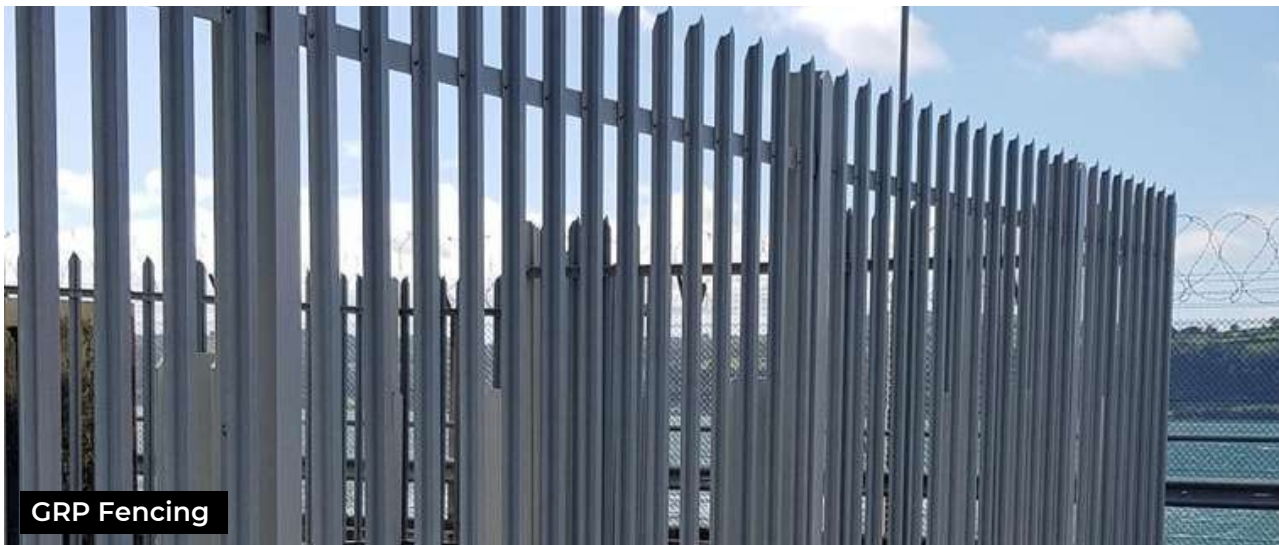
One area where the enhanced performance of our GRP Handrails can be measured quickly, and easily is with a simple touch. Our GRP handrails are warm to the touch and aesthetically pleasing. This is an important factor to consider for handrails that are being used in outdoor contexts.

Our Modular GRP Handrail System is suited for applications such as staircases, access platforms, walkway handrails and guardrails. Due to the high-strength properties of our Handrails, they are also ideal for use to protect and identify hazardous storage areas. Non conductive, non corrosive and maintenance free, our handrails are ideal for use outdoors and in highly corrosive areas.

Handrail components are produced in lightweight fibreglass sections that are easy to transport and handle. Our modular handrail systems can be prefabricated at our manufacturing facility and delivered to site for a simple and easy installation using standard hand tools, saving you time and money.







GRP Palisade Fencing

GRP Palisade Fencing is ideal for corrosive environments and as GRP is a non-conductive material.

Our GRP Palisade Fencing comes pre-assembled and is easily installed. No welding is required eliminating the need for bulky welding equipment and hot works permits. Long-lasting, durable, and easy to install our GRP palisade fencing has a multitude of benefits over steel, making it suitable for practically all environments.

- GRP Palisade Fencing Panels are a non-conductive, non-rust alternative to traditional steel fencing.
- Our GRP Fencing Panels have a high energy absorption and can be repeatedly knocked without causing permanent damage.
- Lightweight – you don't need any heavy lifting gear or specialist equipment to install our GRP Fencing – a two-person team can easily complete the job.
- The chemical-resistant resin means our fencing can be used in the toughest conditions.
- Due to its non-conductive nature GRP fencing does not have to be earthed.





GRP Safety Access Ladders

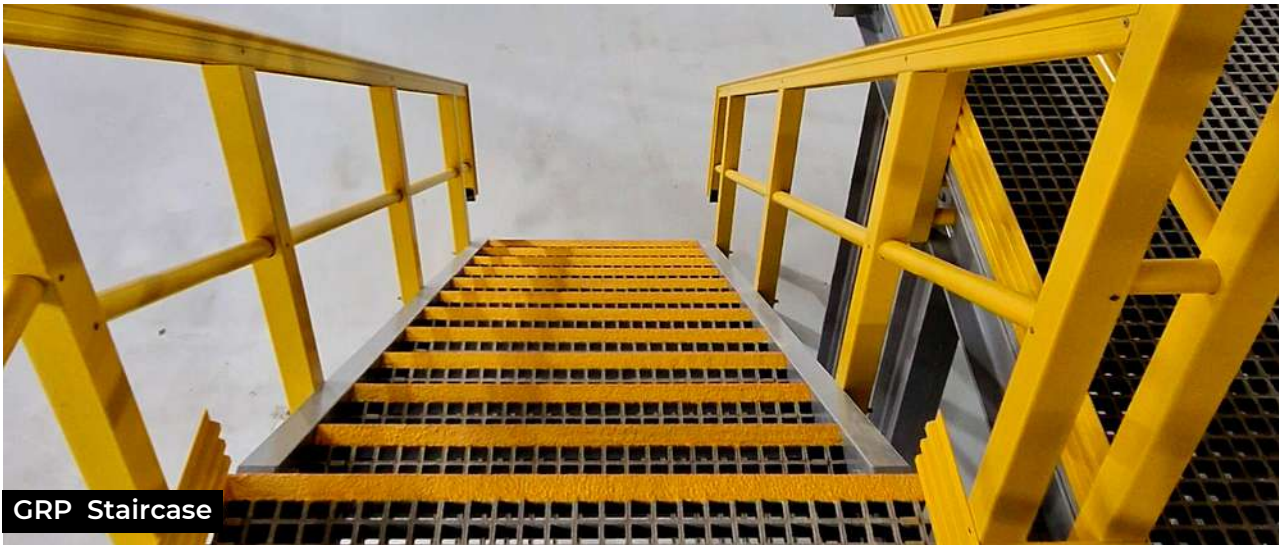
Long-lasting, durable, and easy to install our GRP access ladders are corrosion and chemical resistant and need little or no maintenance. This makes them suitable for practically all industrial and commercial environments, indoor and outdoor.

One area where the enhanced performance of the Re-Grab GRP Safety Access Ladders can be measured quickly, and easily is by a simple touch. Our GRP ladders are warm to touch. This is an important factor to consider for ladders that are being used in outdoor contexts. As they are not subject to cold, or extreme heat, they are much safer to climb.

Relinea Re-Grab GRP Ladders are made specific to customer requirements and can be supplied with all necessary components, including a walkthrough and safety cage. All our GRP safety ladders are manufactured to BS EN ISO14122-3:2001 and BS5395-1-2010.







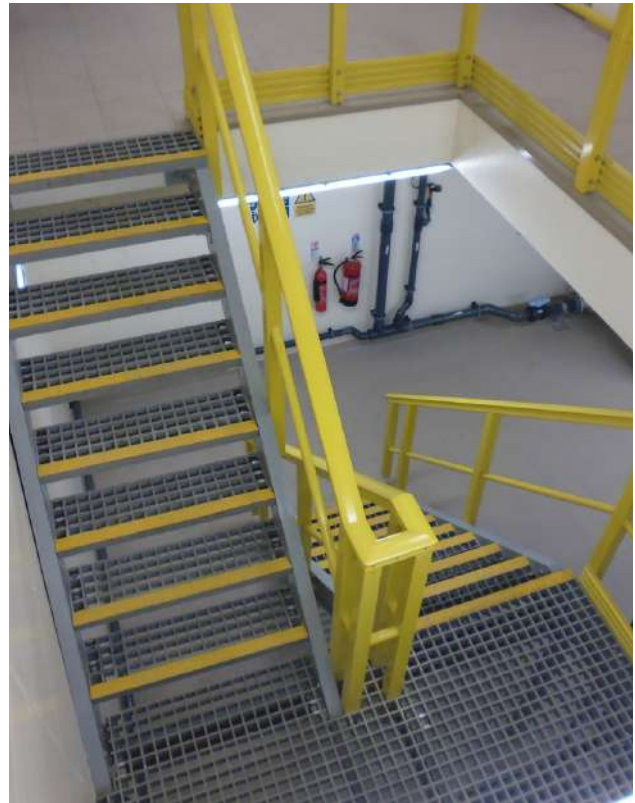
GRP Stairs

Relinea offers customers extensive knowledge and experience in the design, manufacture, and installation of internal and external staircases. Whether it's for general access, fire escape stairs, one or two steps to a doorway or platform, or a multi-story staircase, we have a solution for you.

GRP stairs are perfect for replacing slippery steel or rotten wooden steps. Manufactured using Relinea Re-Grid GRP Open Mesh Grating, the anti-slip grit does not chip or peel away from the grating and does not compromise the slip resistance. This embedded grit finish provides a steadier grip underfoot in wet, icy, or greasy conditions. The GRP grating, handrailing, and structural profiles we use to build our stairs are non-corrosive and weather resistant. GRP is warm to the touch, important for outdoor contexts.

Staircase components are produced in lightweight fibreglass sections that are easy to transport and handle. Our stairs can be prefabricated at our manufacturing facility and delivered to site for a simple and easy installation using standard hand tools, saving you time and money.







GRP Trench Covers

Relinea's GRP Trench Covers are a lightweight, cost-effective alternative to awkward and heavy steel or concrete covers.

Our range of Composite trench covers which can be used in conjunction with our GRP grating provides safe and secure access to pumps, cables and dry wells.

We can fabricate your GRP Trench Covers to suit any existing layout, saving you valuable installation time on site. Due to the lightweight nature of our trench covers, they can be fitted by just one or two men, avoiding heavy lifting or the need for extra equipment. The lightweight design of the covers allows for easy access when routine inspections and repairs need to be carried out.

As with all our GRP products, our trench covers are incredibly durable and resistant to corrosion. They have an excellent strength-to-weight ratio and a gritted anti-slip surface. Relinea's GRP trench covers and access hatches conform to BS 124:1994 – Group A15.



Raised Trench Cover



Flush Trench Cover



Gas Strut Assisted Trench Cover



Flush Filling Trench Cover



Open Mesh Trench Cover



Trench Cover With Fall Arrest



GRP Tank Covers

Relinea's structurally robust and lightweight GRP Tank Covers are designed to provide effective odour control solutions for various applications in Wastewater Treatment Plants such as Sludge Tanks & Settlement Tanks. They are also ideal for protecting stored water or other liquids from contamination and evaporation.

Relinea's GRP Tank Covers can be used for:

- Odour control
- Eliminating algae growth
- Fall protection for personnel
- Protection from ingress of water or other debris

GRP tank covers have numerous benefits. Unlike steel or metal covers, there is no need to worry about corrosion, weathering, or structural instability. Lightweight and easy to install our GRP tank covers are, long-lasting, durable, non-conductive, and need little or no maintenance. This makes them suitable for practically all industrial and commercial environments, indoor and outdoor.





GRP Diffusion Drums



Relinea's Diffusion Drums are available in diameters up to 10m and a variety of depths. Deeper units would be made up of multiple tiers, bolted together. GRP Diffusion Drums can come with incorporated steel hangers and stiffening ribs. Scum doors and baffles can also be added.

GRP Launder Channels

Relinea's GRP Launder Channels are: a cost-effective and easy to install alternative to steel and concrete launder channels. Used to filter out the sewage liquor or water from tanks they are available in a variety of designs, including Z shaped, which are directly bolted to the wall, and traditional U shaped.



GRP Weir Plates



Relinea's GRP Weir Plates are designed to control the flow of sewage in waste water treatment plants. Our Weir Plates are highly non-corrosive and chemical resistant, Weir Plates can be supplied as blank, v-notched, rectangular, flat top, castellated, and sharp crested as required.

GRP Scum Boards

GRP Scum Boards are designed to retain scum build up in raw sewage liquor environments. Relinea can supply Pre-Curved or Flat Sheet Scum Board arrangements, and furthermore provide brackets manufactured in GRP, galvanised steel, or stainless steel.



Case Study - Inchigeelagh Sewerage Scheme, Cork



Problem/Challenge

Glanua, working for Uisce Éireann in partnership with Cork County Council, delivered this project which involved the construction of a new wastewater treatment plant and sewerage infrastructure. This was to eliminate the discharge of untreated wastewater into the River Lee.

Glanua wanted a cost-effective, anti-corrosive, safe solution. As the water treatment plant was next to the sea, they knew steel would be too corrosive and prone to rust. GRP was also a much less costly material than steel.





Solution

GRP was the preferred choice of material for the project for a number of reasons. As a material GRP offers a multitude of benefits, including warm to the touch, non-corrosive, and high strength-to-weight ratio. Our GRP products also require little to no maintenance. There is no need for costly re-painting to prevent rust, saving both valuable time and money.

GRP is warm to the touch, this is an important factor to consider for handrails and steps that are being used in outdoor contexts. As they are not subject to cold, or extreme heat, they are much safer to climb. GRP offers an exceptionally hard-wearing, slip-resistant surface.

Our access platforms are manufactured using GRP pultruded profiles, which produce lightweight, chemically resistant, easily installed solutions. GRP handrails are an extremely durable and cost-effective alternative to steel, and they are ideal for outdoor, industrial, and commercial applications.

Case Study - Collooney & Ballymote WW Treatment Plants

Problem/Challenge

The access equipment had been originally specified in galvanized steel, but due to the pledge given by Veolia's director that the company would ensure the State got value for money, the Contracts Manager was keen to look at alternatives.

Relinea provided a competitive proposal to the steel system, which had the added advantage of a 50 year design life, as well as significantly reduced installation costs. This was a win win for Veolia and they awarded Relinea the contract to design and supply all access equipment and hatches.

We were required to develop the design for the platforms prior to the work commencing, as Veolia were endeavouring to install main structural steels in parallel with our equipment. Working with the Veolia team, our inhouse GRP designers developed a system that had flexibility to allow for changes on site to match the site requirements.



Solution

Our ability to provide full 3D drawings, backed up with complete calculations and anchor specification ensured the equipment was supplied prefabricated and could be just dropped into position. Some remedial work was required on site but due to our design and the flexibility of GRP these issues were easily solved. The client praised our professional approach and was pleasantly surprised how easily the equipment could be installed.



Case Study - Maghera Sewage Treatment Works



Problem/Challenge

Relinea was appointed by Ovivo Water to provide an effective odour control solution for two existing sludge holding tanks within the Maghera Sewage Treatment Works.

The two sludge tanks to be covered were in full operation, hence the installation needed to be carefully co-ordinated with the client. To gain access within the sludge tanks, they would have had to be fully cleaned out, which would have proved to be very costly. Relinea therefore had to design a system that could be installed without the necessity of accessing the tanks.



Solution

Relinea proposed a number of designs to Ovivo Water that would effectively control the odour emanating from the sludge holding tanks, while also allowing for ease of installation given that access into the sludge tanks was limited. In view of this, Relinea conclusively recommended a conical-shaped bespoke GRP moulded tank cover be employed, meaning that the tank covers could be built up in an area adjacent to the sludge tanks and then crane lifted in one piece into position.

The 10.6M conical-shaped self-supporting tank covers were manufactured in chemical resistant resin ensuring a long maintenance-free service, and were constructed using equal moulded segments which were bolted together and connected to the central ring. The tank covers were manufactured to carry a loading of 0.75Kn/m² and met BS EN 1991-1 Standards. Installation of each cover was carried out within two days causing minimal disruptions to site operations.

Each odour control tank cover incorporated a manway access hatch with integrated fall arrest, and a pump access hatch with an integral split fall arrest which ensured protection throughout the pump removal process. Relinea delivered the project on time, on budget and to a very high standard to the complete satisfaction of Ovivo Water.



Case Study - Lydney Sewage Treatment Works



Problem/Challenge

The client approached us to manufacture and supply GRP Launder Channels, Weir Plates & a Diffusion Drum for a Primary Settlement Tank at Lydney Sewage Treatment Works. Stainless steel is generally used to manufacture launder channels, weir plates and diffusion drums.

Although stainless steel is highly durable, it is nonetheless a very expensive alloy. Alternatively galvanised steel may be used for these water treatment products however it is a highly corrosive material and is subject to chemical attack, resulting in high maintenance costs and possible early replacement.

Solution

Relinea was approached by the client to provide a corrosive-free, cost effective solution for these products. GRP provides a highly durable system which offers almost zero life cycle costs but at a fraction of the cost of stainless steel. Relinea provided bespoke moulded GRP Launder Channels, Weir Plates and a Diffusion Drum, manufactured using chemical-resistant resin. This ensured the equipment was suitable for the highly aggressive environment it would be exposed to, and would remain corrosive-free and maintenance-free throughout its life span.

The GRP Launderers were manufactured in easy to handle sections with an integral toggle joint to suit a 16M diameter tank, and were assembled together on site. The GRP Weir Plates also incorporated toggle joints, and were bolted onto the Launder Channels. In order to produce the diffusion drum a mould was made and we produced the drum in flanged sections which to create the final product.

Seeing as GRP products are much lighter than steel, an additional benefit was that the water treatment products were a great deal more easily installed on site, hence providing lower installation costs.



Case Study - Spencetown Inlet Works



Problem/Challenge

The end client was NI Water. We worked in conjunction with the main contractor Ovivo, who appointed Relinea to supply and install GRP access hatches and solid top grating to cover inlet works.

The inlet works is a large irregular shaped structure which required concealment for the containment of odorous gases. It also required machinery, instrument, inspection and manway access hatches.

Solution

Considering that GRP provides a non-corrosive, solid, cost-effective, and anti-slip solution that can be easily installed, GRP was deemed to be the most suitable material for the application. Ovivo appointed Relinea to sub-contract the equipment.

The client required the inlet works to be covered using GRP covered grating. We installed GRP support beams over the trenches on the inlet works, and then after installed our solid top grating. The inlet works had been stepped and, as a result we were able to incorporate highly visible step edging for worker safety into the installation. Finally, the access covers had to be installed with fall arrest and pneumatic rams, and lockable handles.



Benefits of GRP

Maintenance free, corrosion and impact resistant, our GRP products have considerably low life cycle costs compared to traditional materials.

GRP can be effectively used in the development of new structures to achieve a superior service life without the need for regular, costly maintenance. As we work towards sustainability goals and extending the life of products, glass-reinforced plastic can also be incorporated into existing structures to extend existing service life.

Relinea can develop solutions that have a much lower carbon footprint in comparison to traditional building materials such as concrete & steel. Built to last, GRP is the material of the future for those seeking energy-efficient, green, sustainable solutions.

Long Term Cost Savings



Maintenance free, corrosion and impact resistant, and with a life span of 50+ years, our GRP products have considerably low life cycle costs compared to traditional materials.

The Safety Benefits of GRP



Slip resistant, non-conductive, and fire retardant. Our integral grit finish offers the world's highest slip resistance for a walk-on surface. Due to their non-conductive nature our products do not have to be earthed.

The Practical Benefits of GRP



75% lighter than steel, GRP products make for an easy two man installation. Impact resistant and with a high strength to weight ratio, they are easily fabricated and handled on site.



Sustainability

Relinea is committed to using manufacturing and innovation to make the shift towards a more sustainable business. Integrating sustainability into our business model and ways of working creates value for all. At every stage of our process, we reduce our environmental impact through innovation, R&D, and waste minimisation. Early engagement through planning and design combined with robust advanced product solutions ensures a reliable and sustainable future.



Relinea is known for providing GRP products and services that continually improve the quality of life and the environment by fulfilling society's need for infrastructure including, clean water, construction, transportation, and reliable energy – in a sustainable way.





Products made from GRP can offer significant environmental benefits because of their characteristically low weight, good mechanical properties, and excellent resistance to corrosion.

RECYCLABLE

GRP waste is often shredded and processed to create a high-grade alternative for the cement industry, where it is used as a fuel and mineral raw material.

LONG LIFESPAN

The thermosetting resins used in GRP are far stronger and more durable than other plastics, giving most GRP products a lifespan of more than 50 years.

LOW CARBON FOOTPRINT

GRP's CO₂ equivalent is less than half that of a concrete bridge and approximately a third of the CO₂ equivalent for a steel bridge. As a result, GRP's carbon footprint is also very favourable.

ENERGY EFFICIENT

50% less energy is needed to produce glass-reinforced plastic (GRP) than steel.

LIGHTWEIGHT

GRP structures are 75% lighter than steel which means 50% less energy is needed for transport and assembly.

ECO FRIENDLY

GRP produces fewer greenhouse gasses and consumes less energy at the production stage than both steel and aluminum. Pultrusion takes place in a fully-closed process, which minimises the evaporation of volatile compounds, and no smoke clouds or toxic air pollutants are created.



Our Customers

collen | founded 1810

HEGARTY
Building & Civil Engineering
Contractors

MERCURY

coffey

MCL & H

**Northern Ireland
Electricity
Networks**

Balfour Beatty

CAIRNCROSS

bam

NetworkRail

Foyle

VEOLIA

**Sir Robert
McALPINE**

CDE

AECOM

KILNBIDGE

**Iarnród Éireann
Irish Rail**

Glanua
For a cleaner planet

MURPHY
WORLD-CLASS INFRASTRUCTURE

Lagan
CONSTRUCTION GROUP

kn group

ESB

**BUILDERS
SISK
CONTRACTORS**

**MORGAN
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